

Fig. 1

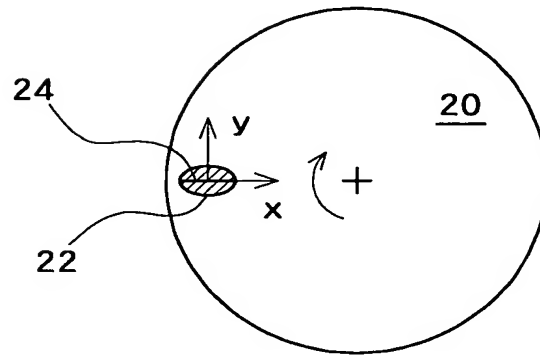


Fig. 2

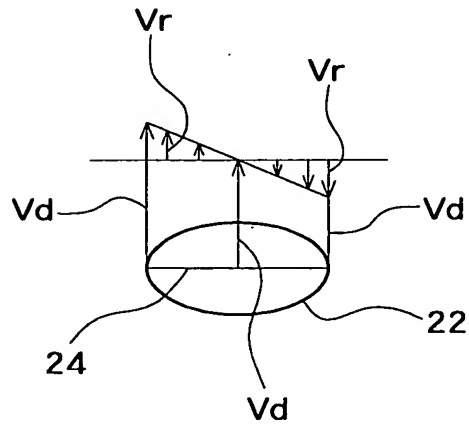


Fig. 3

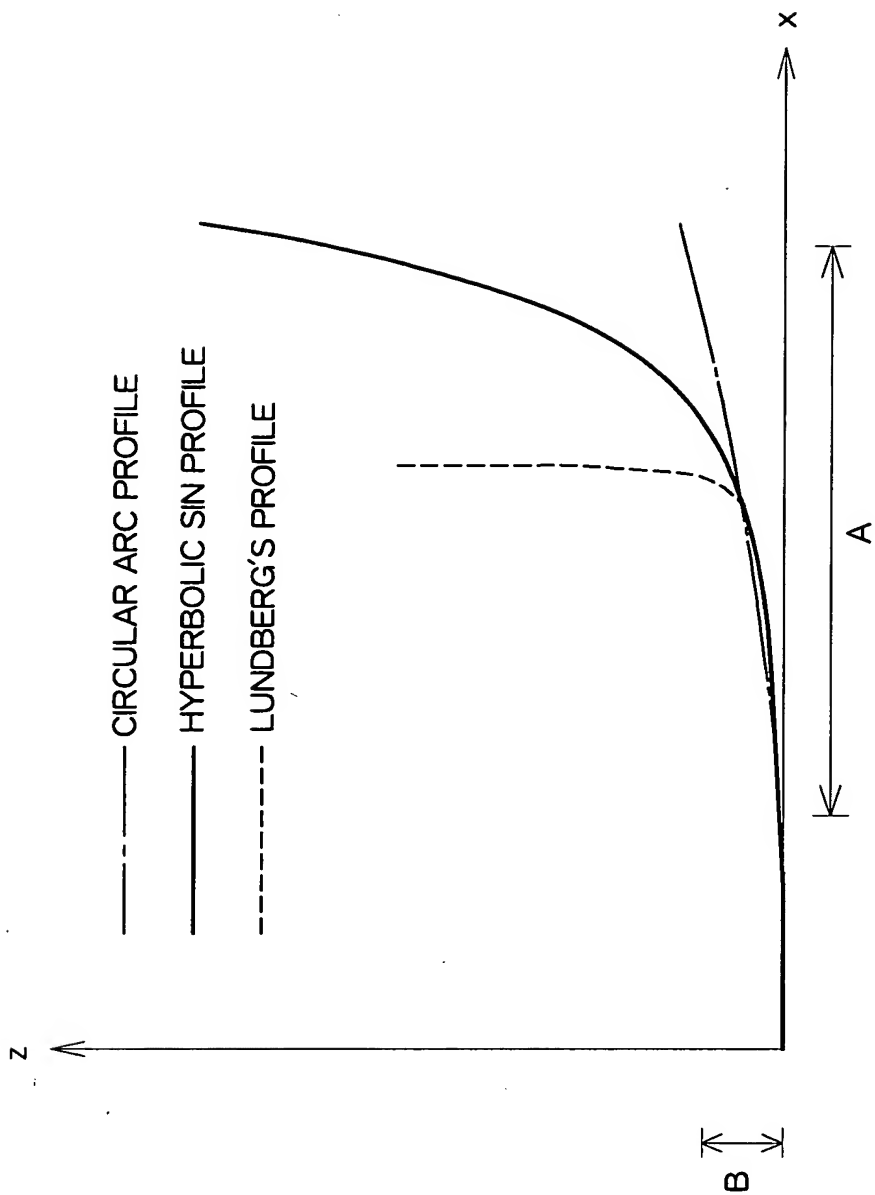


Fig.4

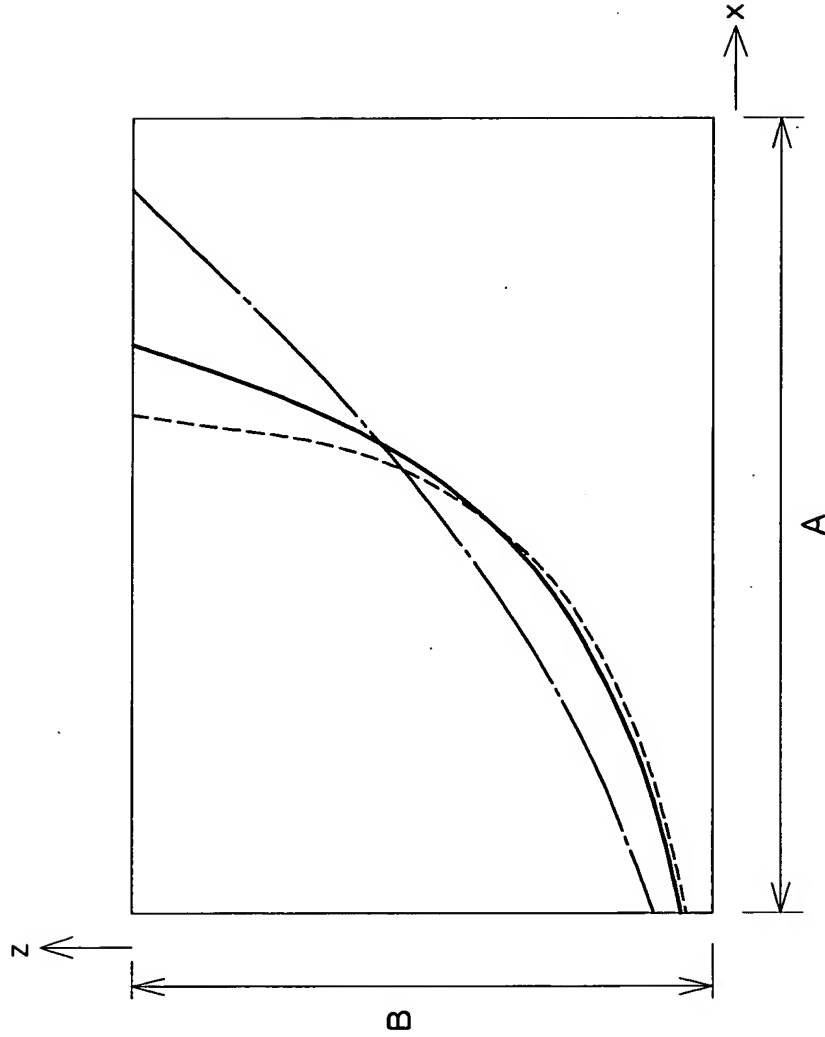


Fig.5

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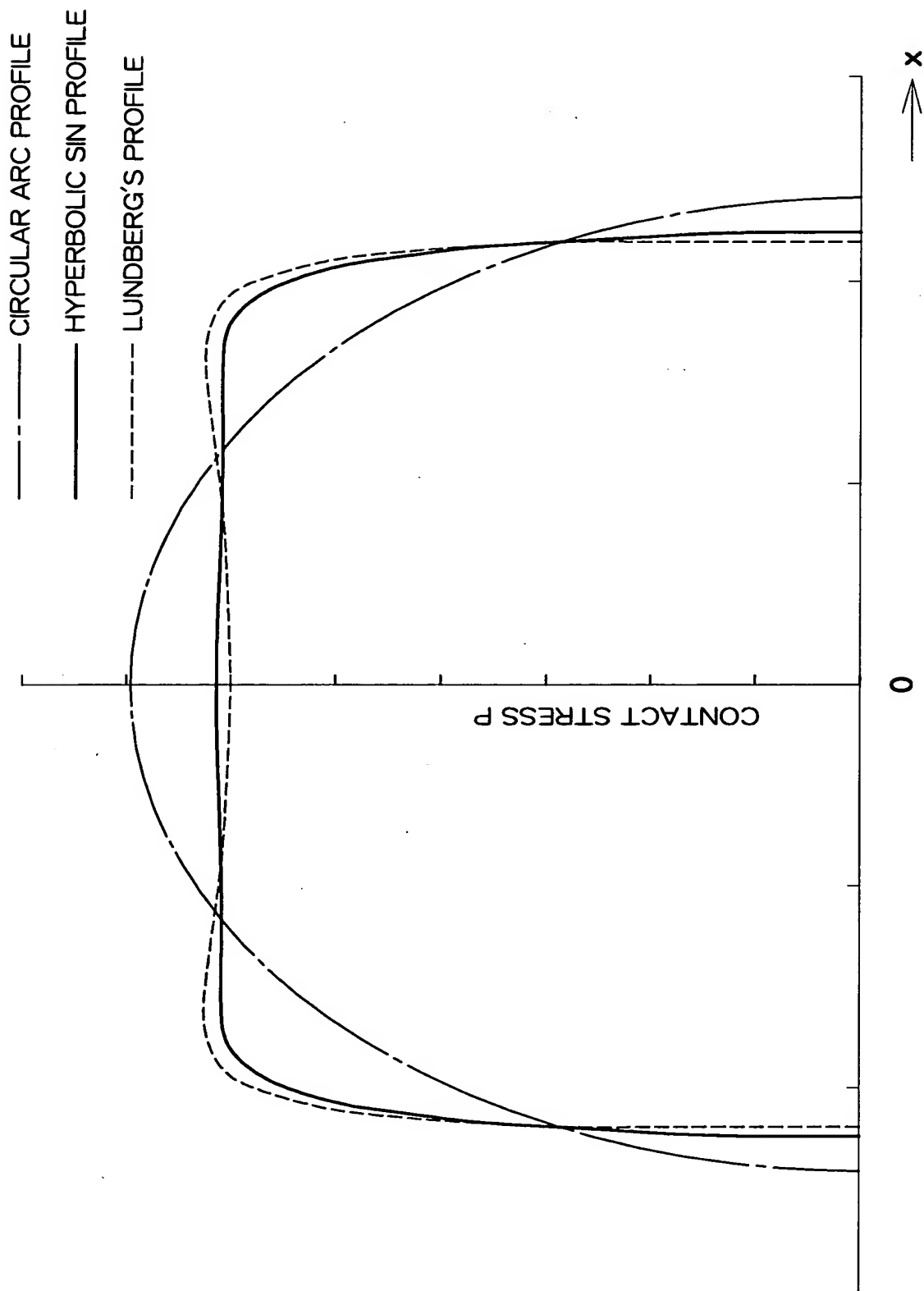


Fig.6

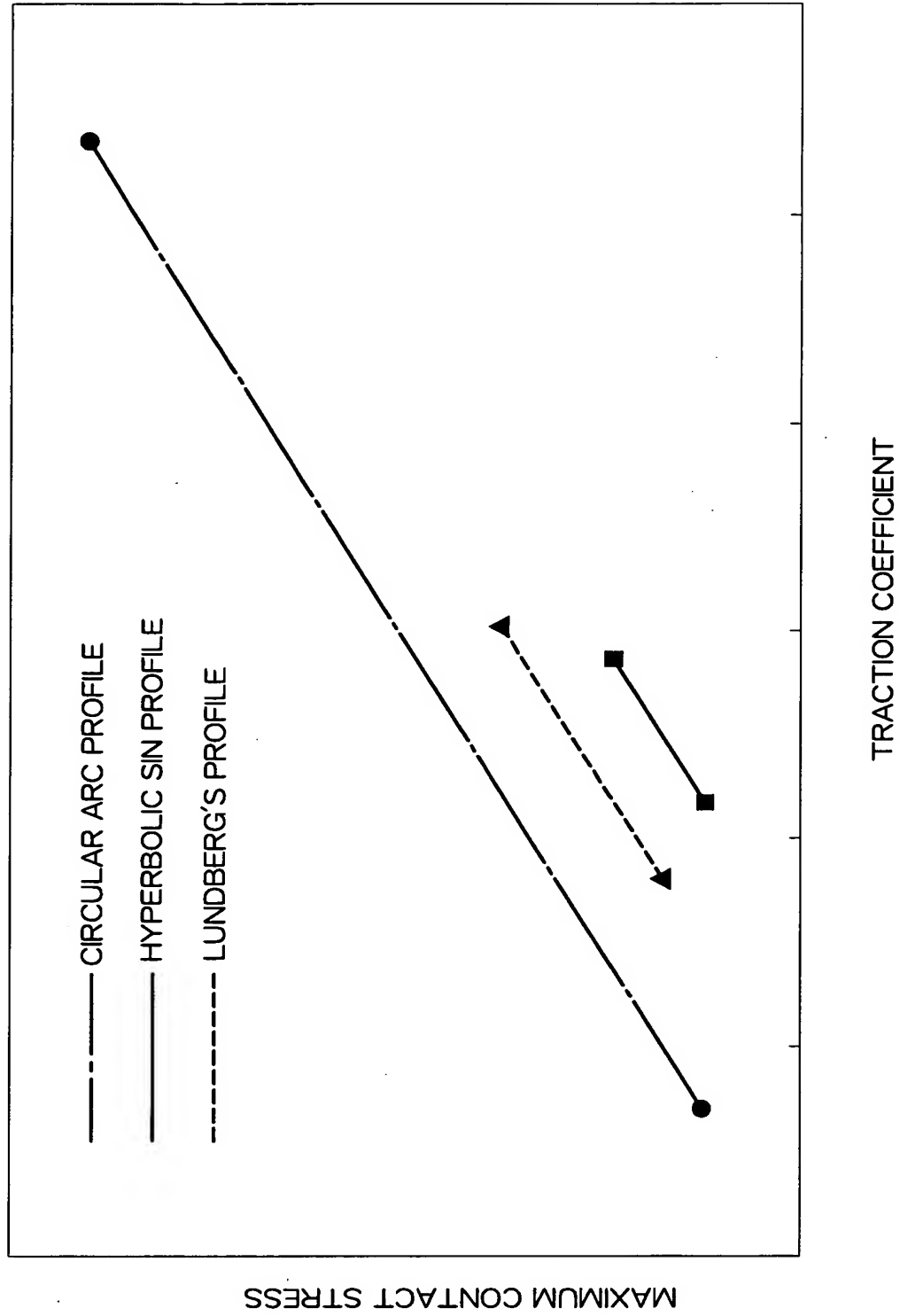


Fig.7

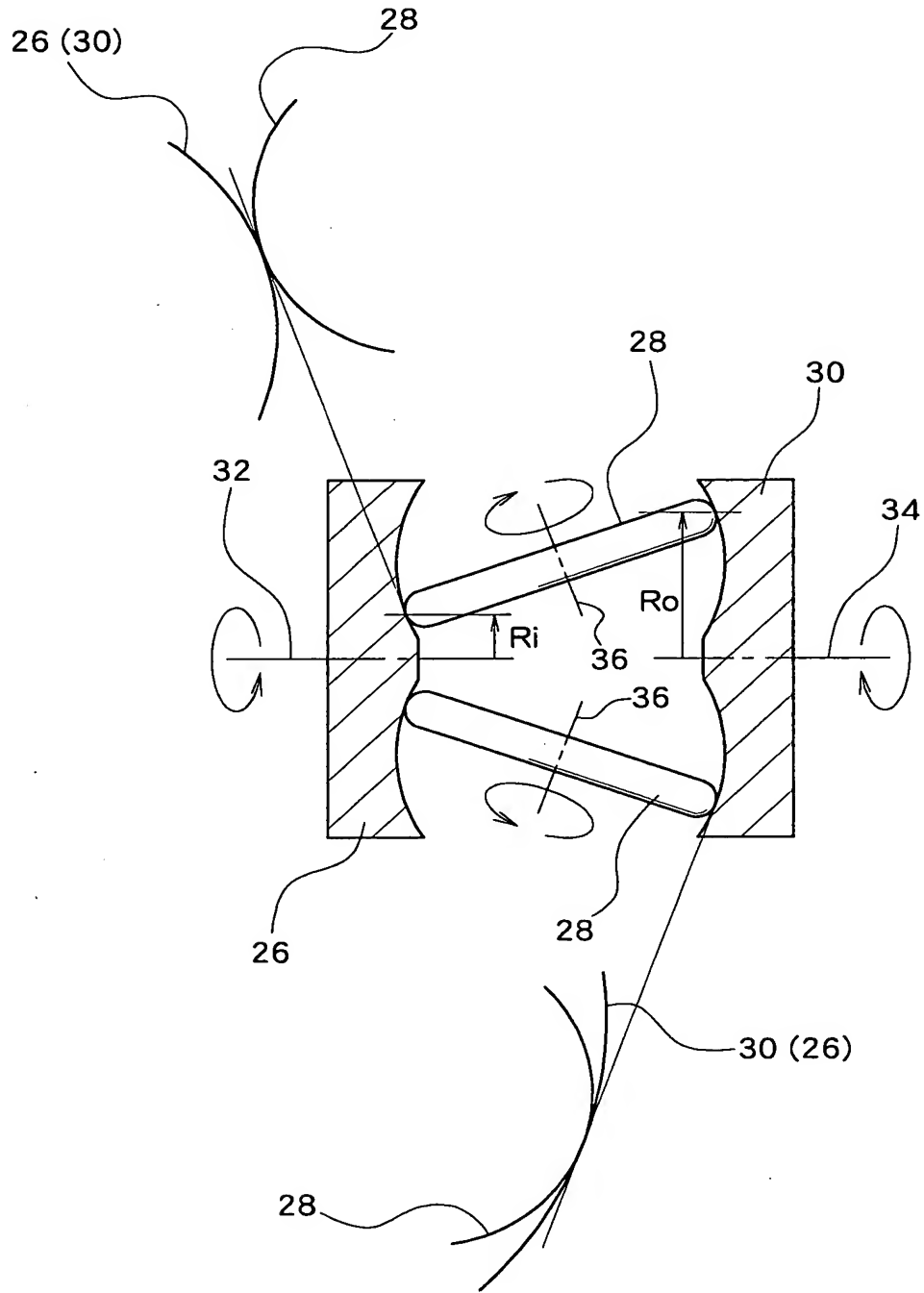


Fig.8

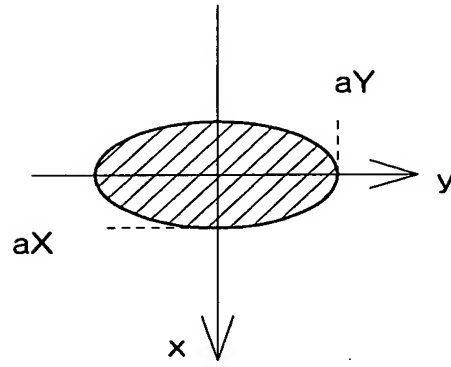


Fig.9

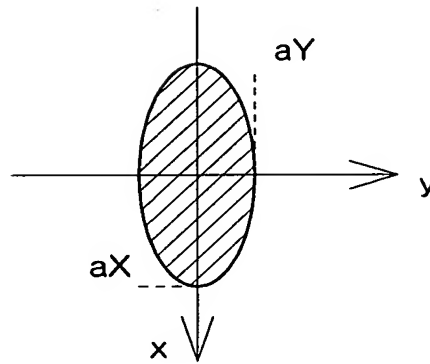


Fig.10

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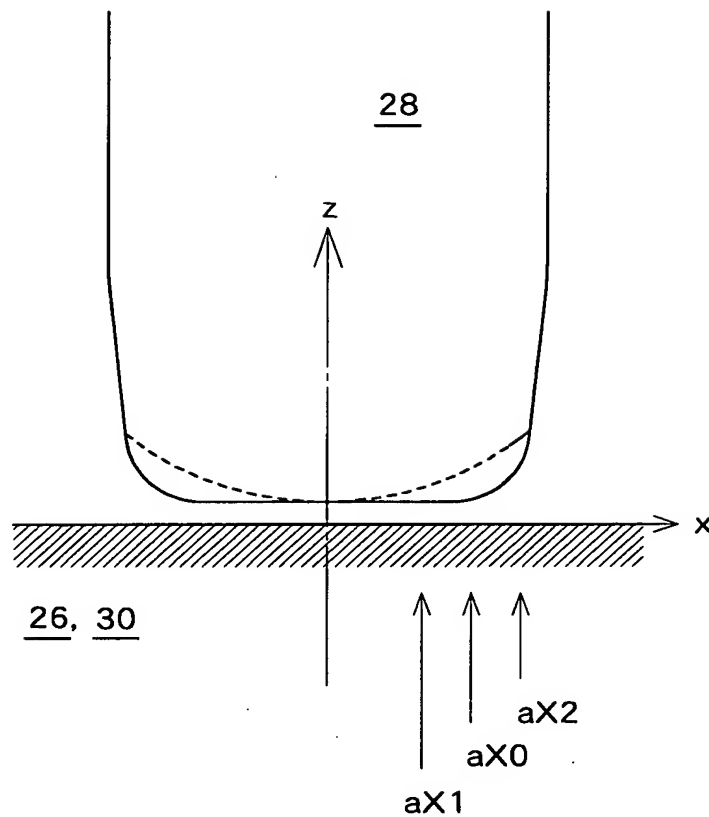


Fig.11

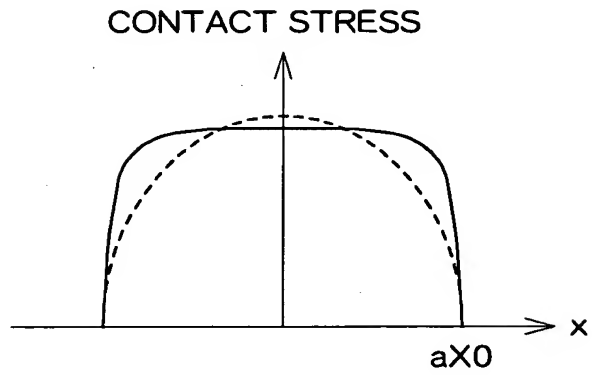


Fig.12

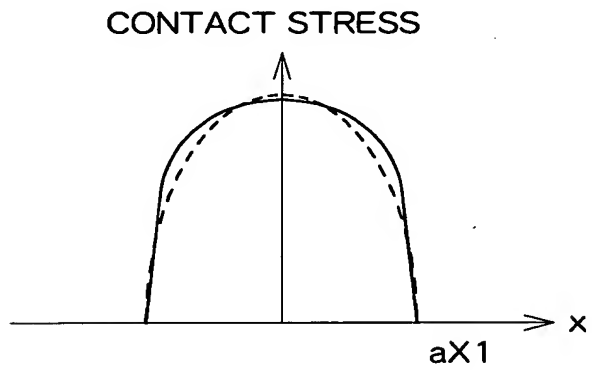


Fig.13

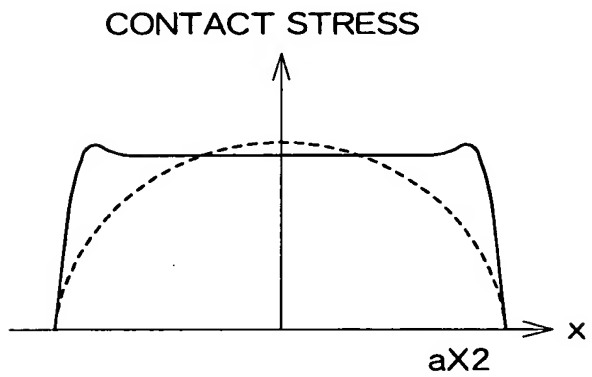
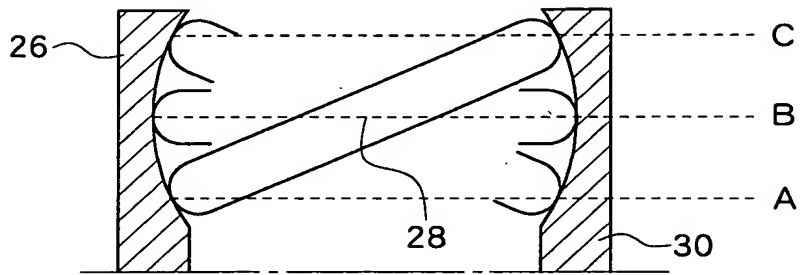


Fig.14



SPEED CHANGING STATE	INPUT CONTACT	OUTPUT CONTACT
DECELERATION	A	C
CONSISTENT SPEED	B	B
ACCELERATION	C	A

Fig.15

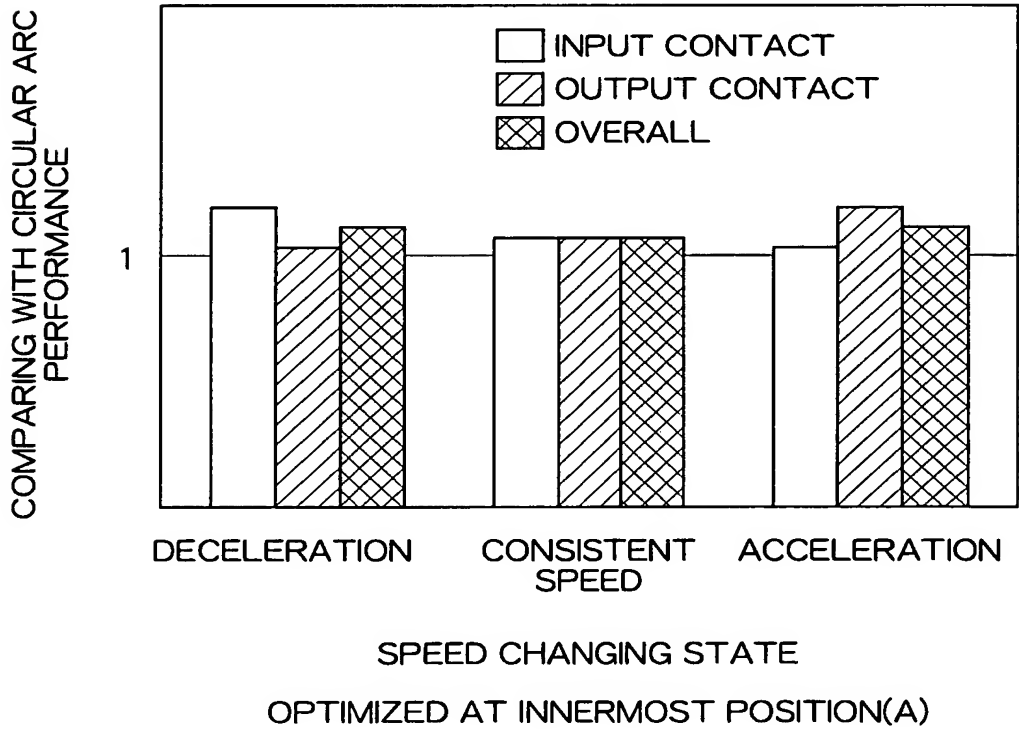
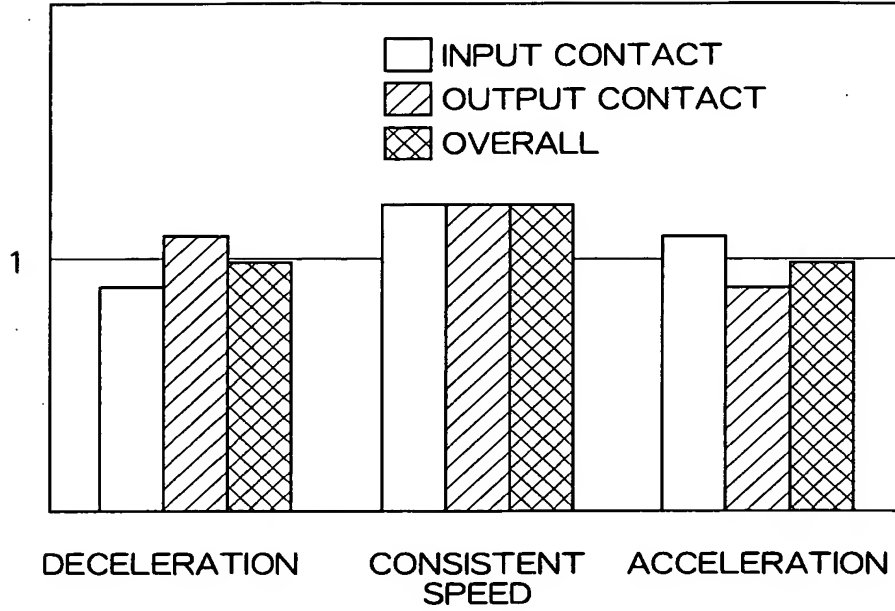


Fig.16

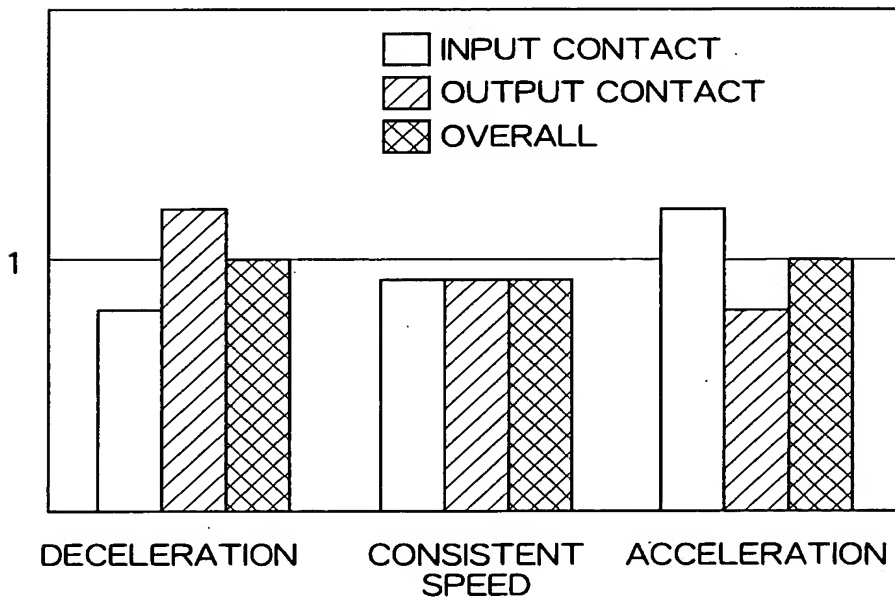
COMPARING WITH CIRCULAR ARC
PERFORMANCE



SPEED CHANGING STATE
OPTIMIZED AT NEUTRAL POSITION (B)

Fig.17

COMPARING WITH CIRCULAR ARC
PERFORMANCE



SPEED CHANGING STATE
OPTIMIZED AT OUTERMOST POSITION(C)

Fig.18

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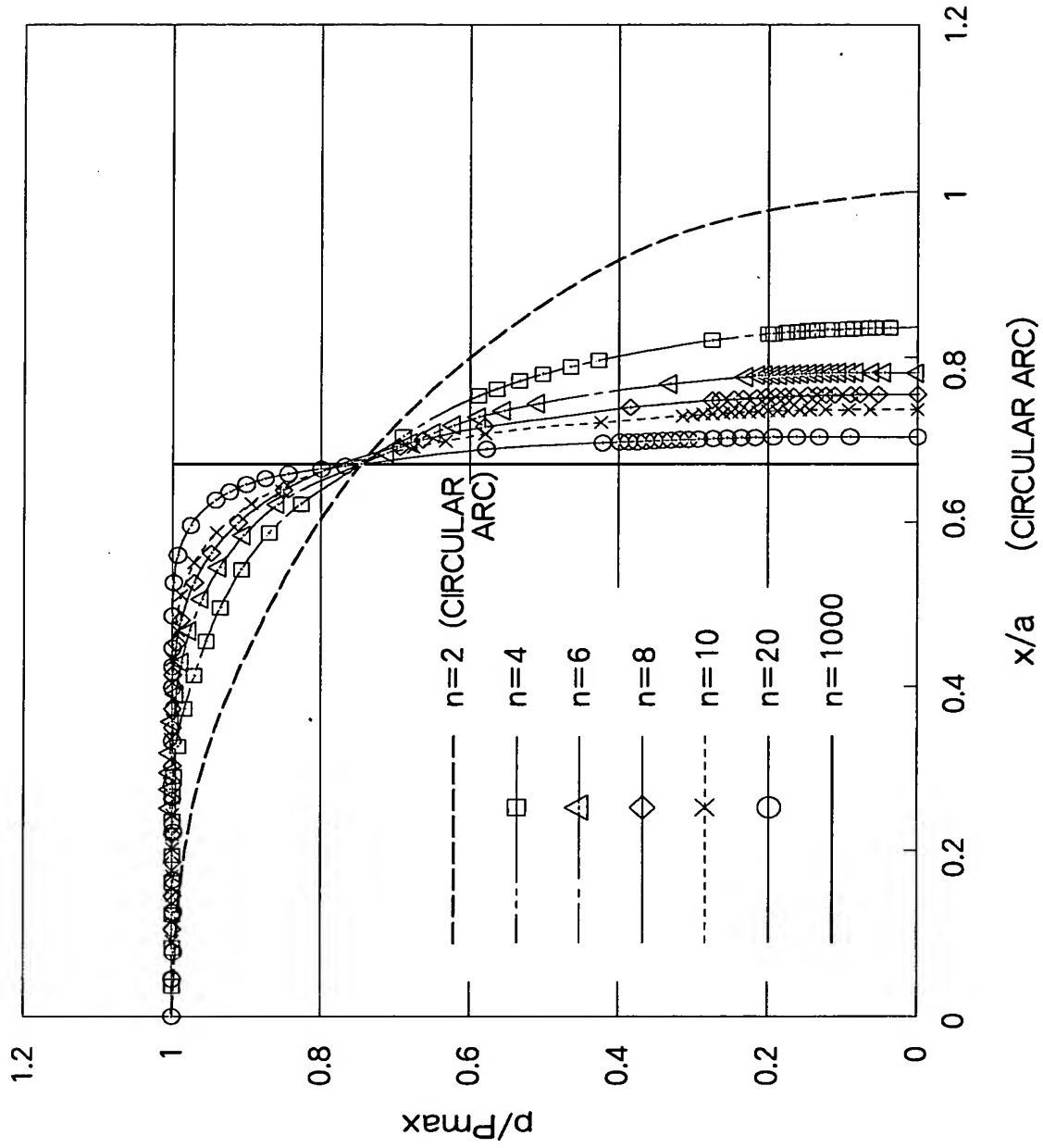


Fig.19

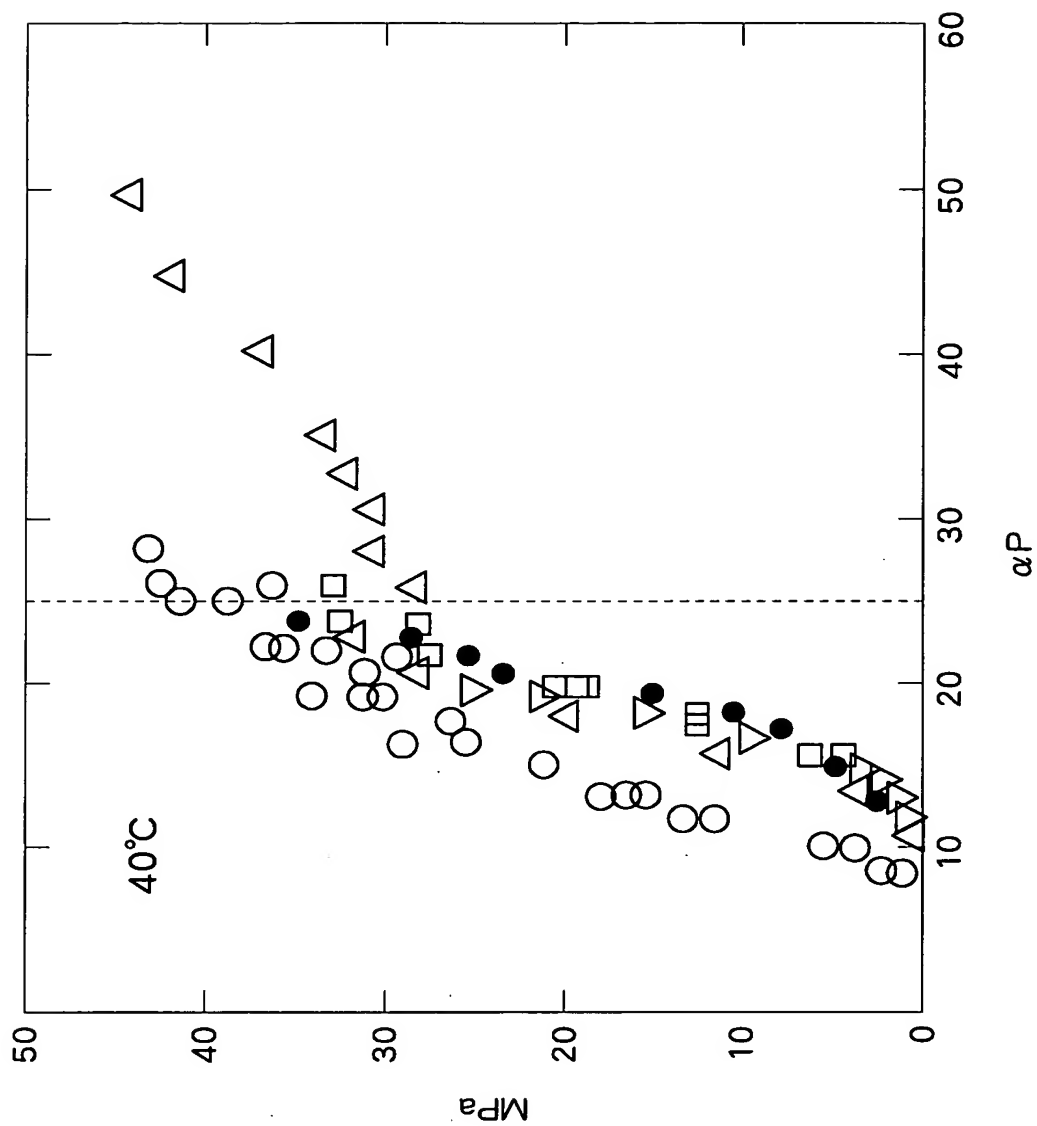


Fig.20

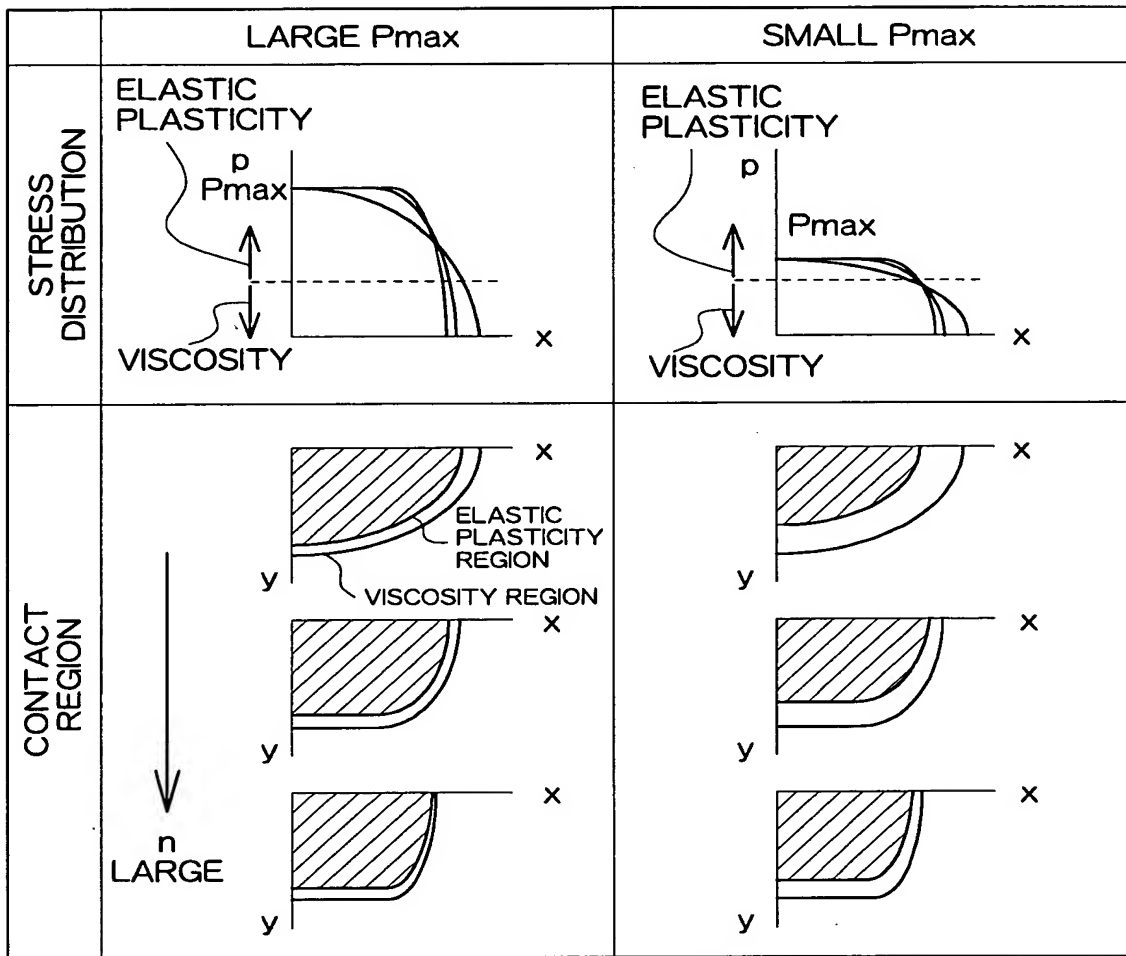


Fig.21

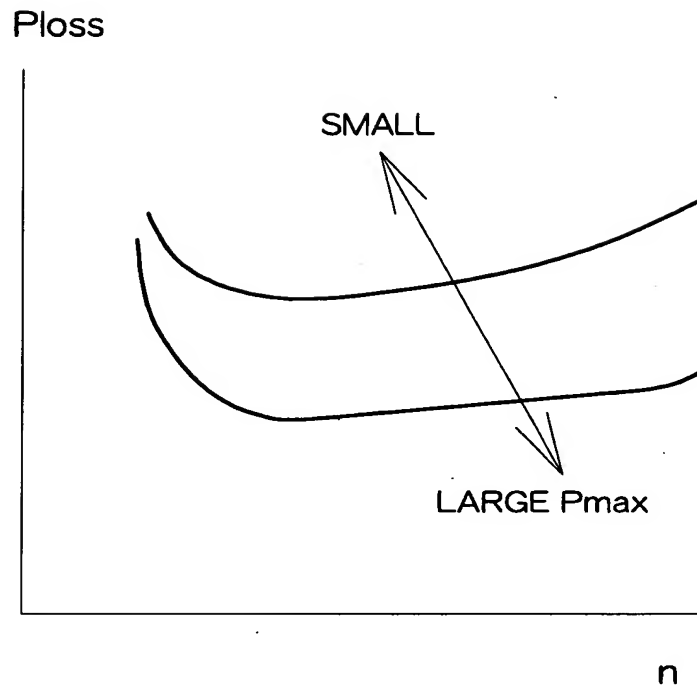


Fig.22

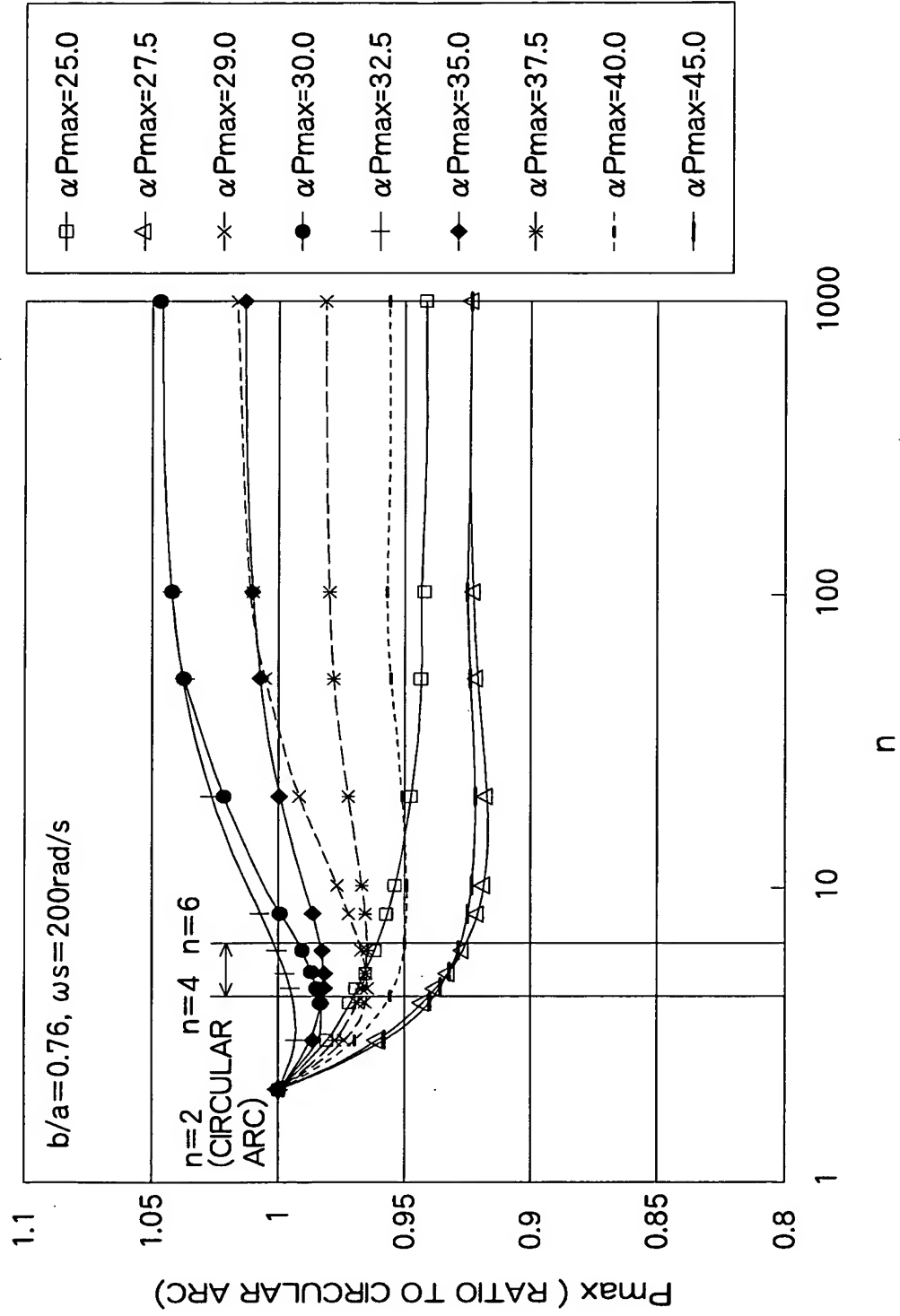


Fig.23

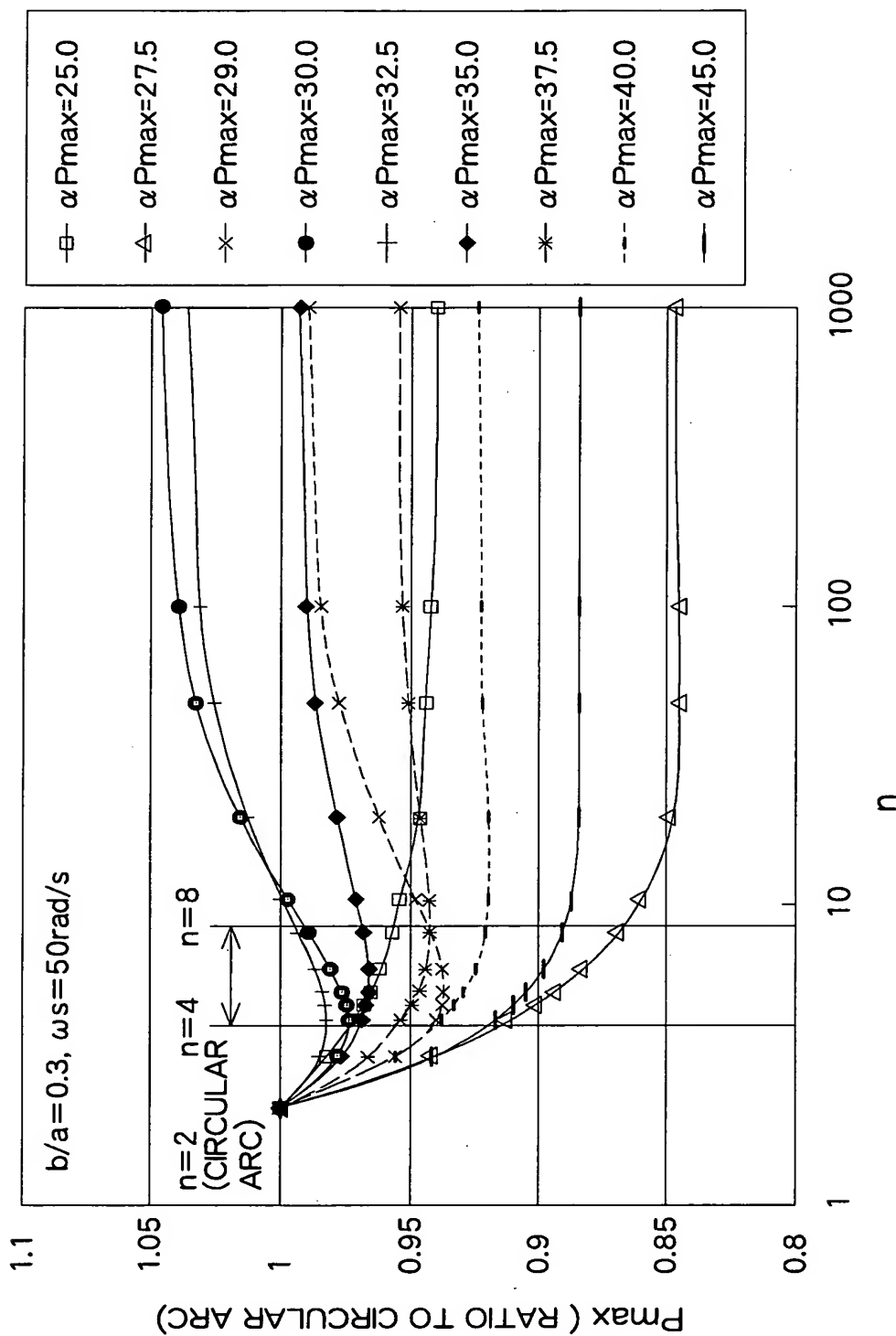


Fig.24

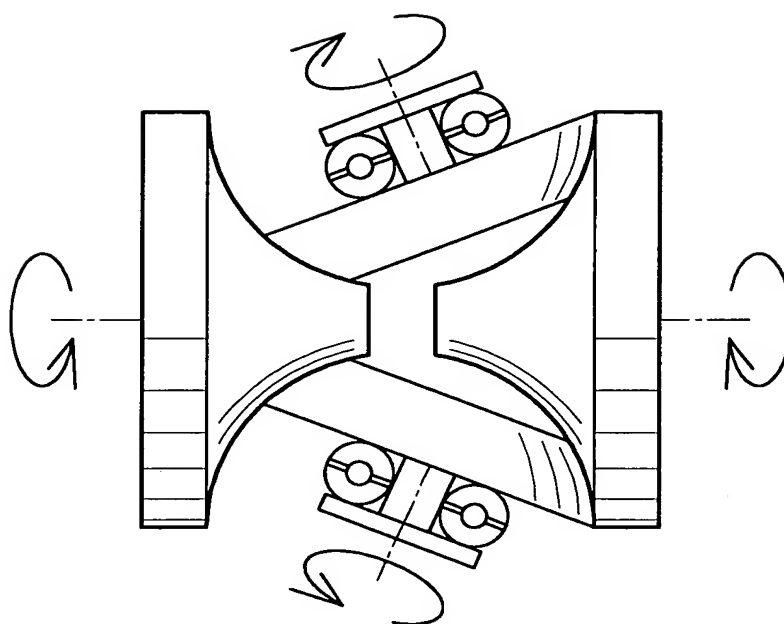


Fig.25

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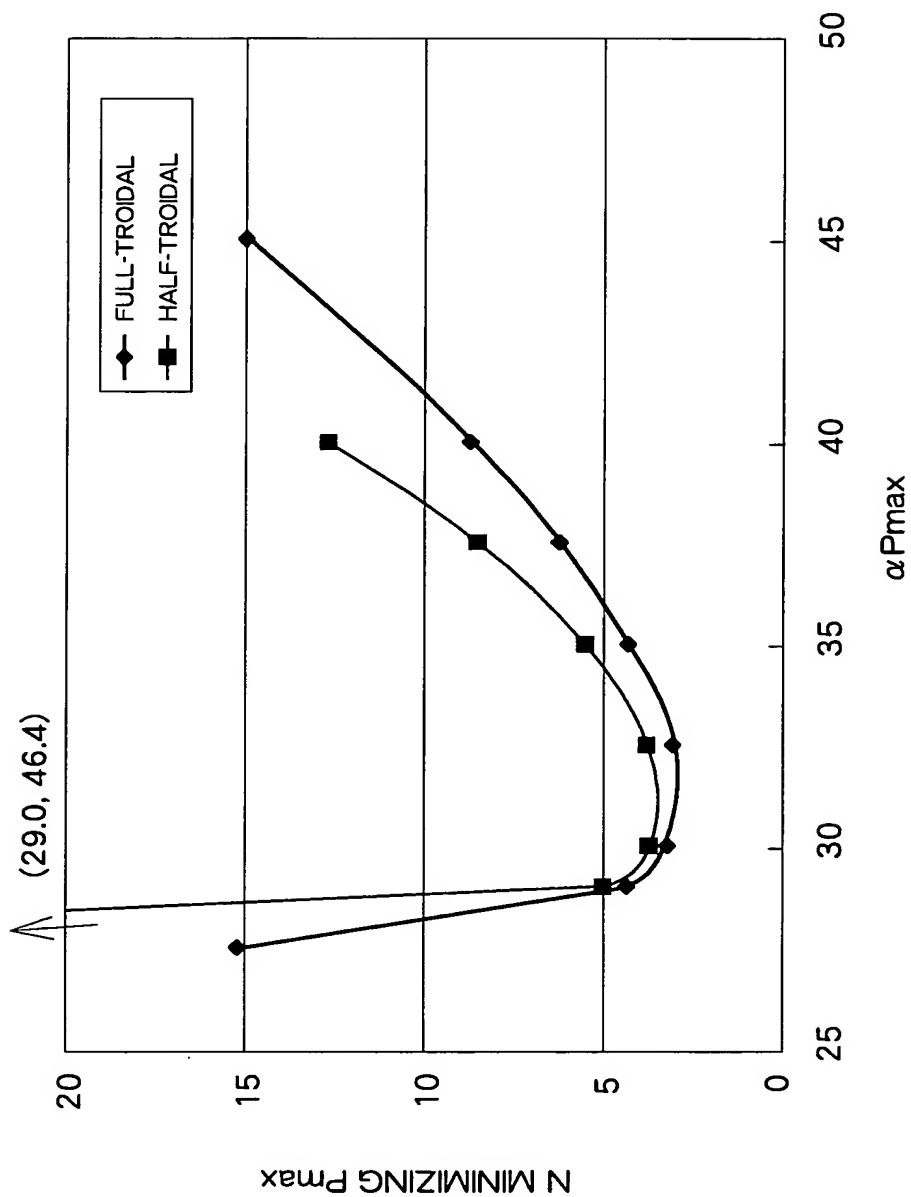


Fig.26

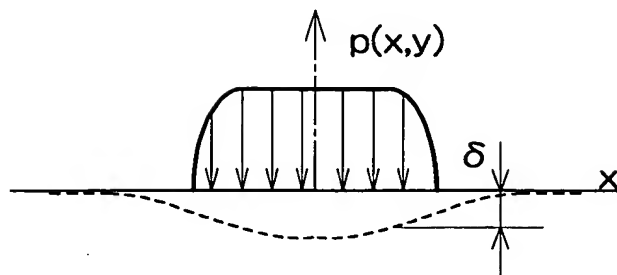


Fig.27A

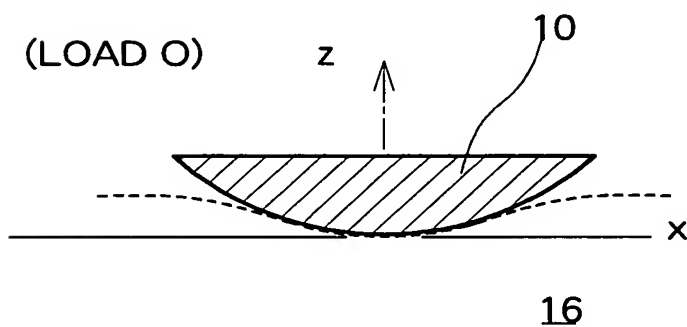


Fig.27B

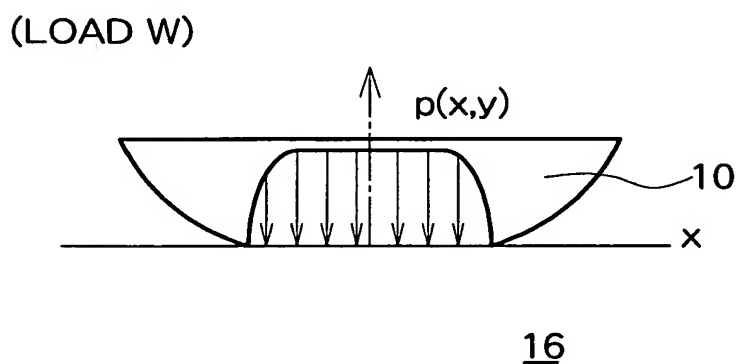


Fig.27C

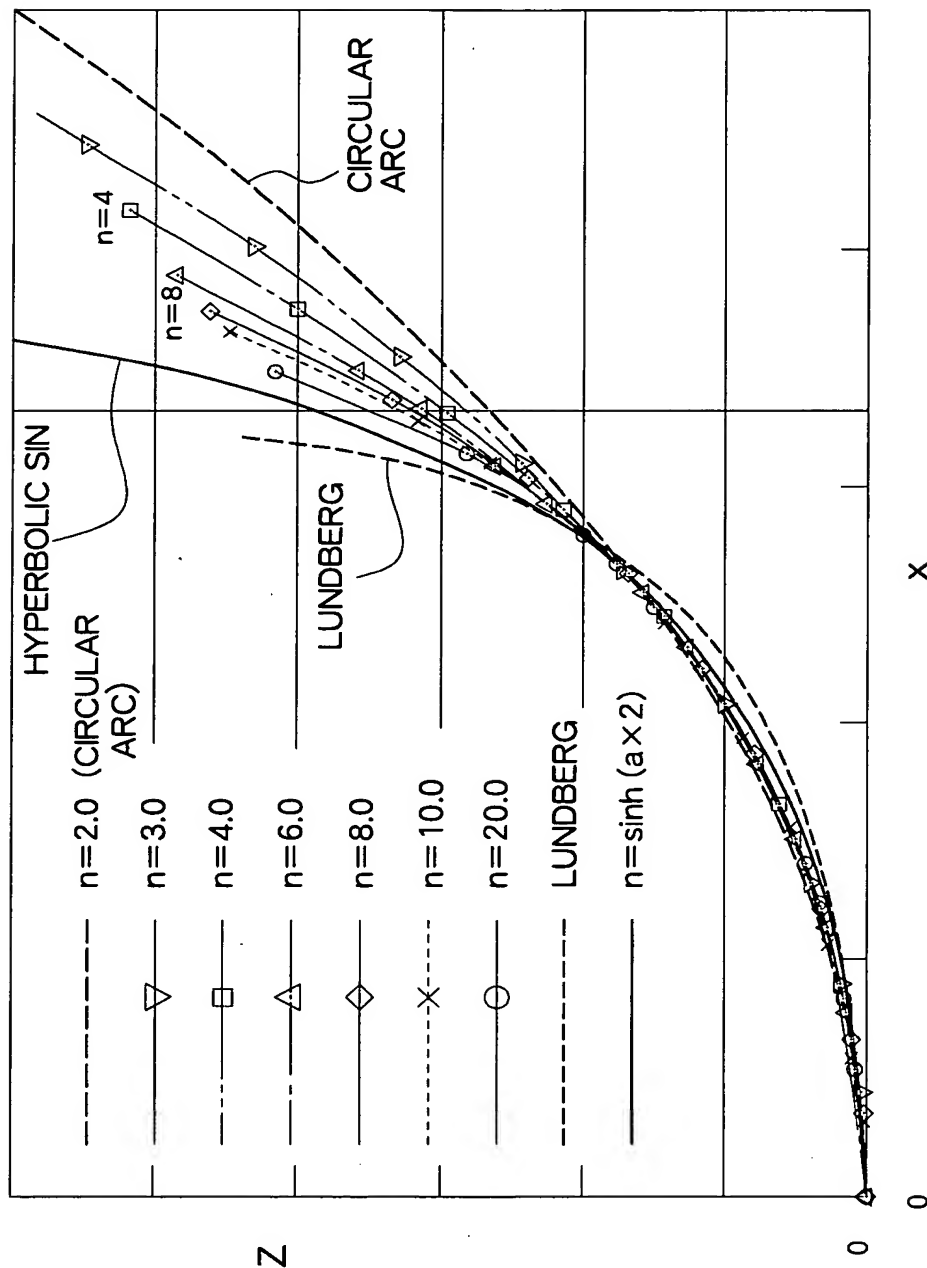


Fig.28